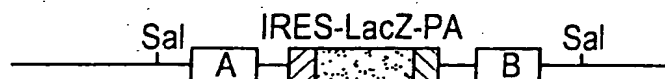
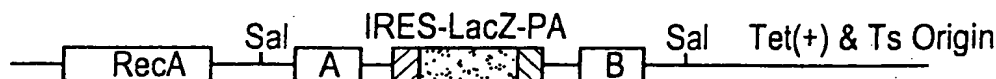
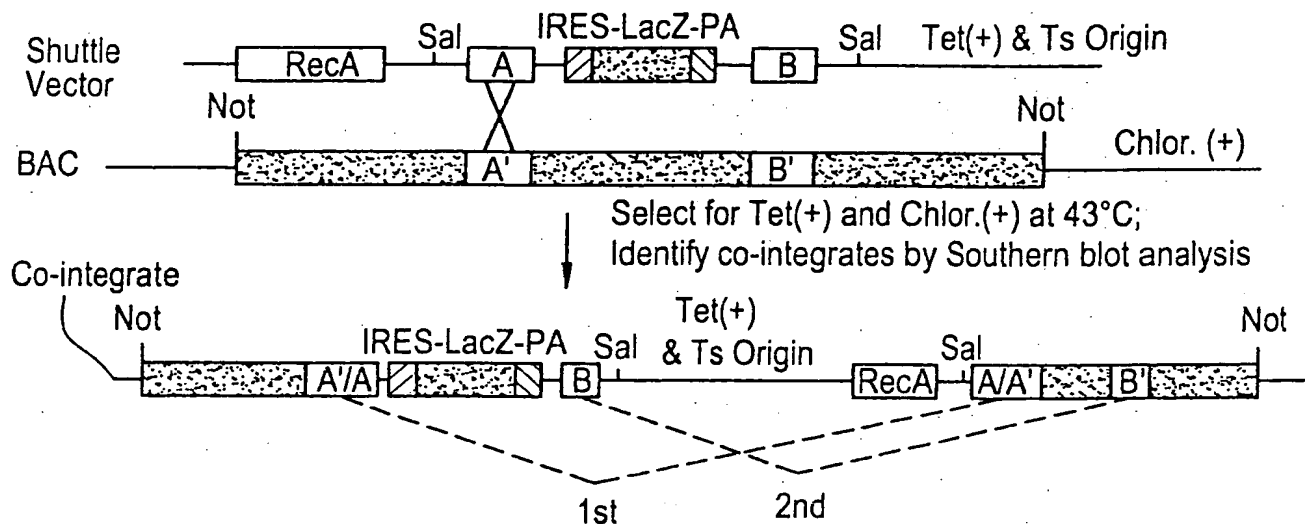


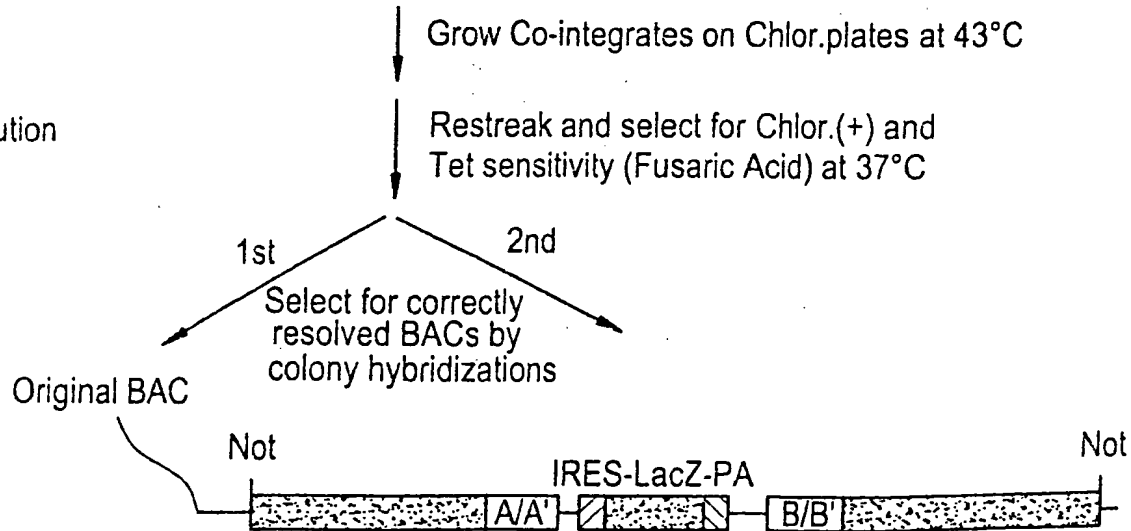
## FIG. 1

I. Construction of the *recA*(+) and temperature sensitive shuttle vector

1) Clone two small genomic fragments (&gt; 500 bp each) into the building vector (pBV1)

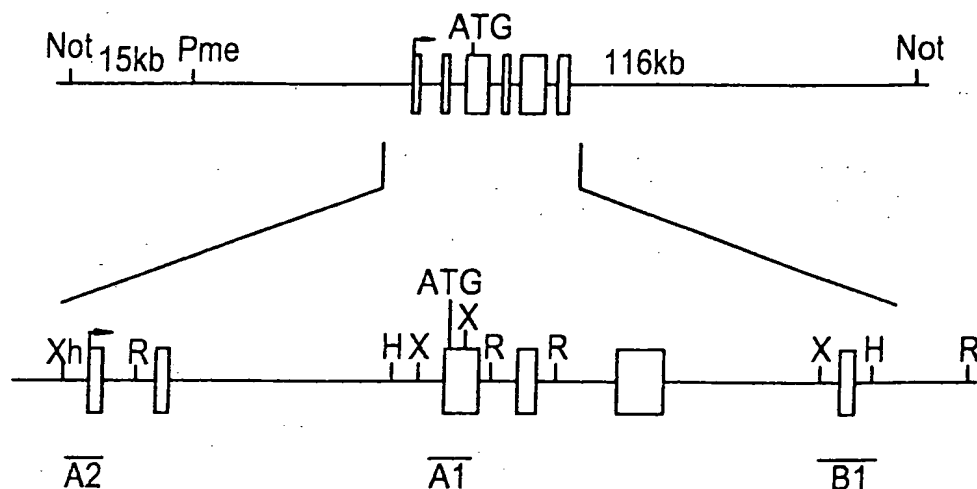
2) Transfer the recombination cassette into the Ts-*RecA*(+) shuttle vector (pSV1.*RecA*)II. Transformation of the shuttle vector into the *E. Coli* host strain of BACs and selection for co-integrates

## III. Resolution



## FIG. 2A

Map of the RU49 Genomic Locus within BAC169



## FIG. 2B

Map of the Modified BAC 169 with an IRES-LacZ-PolyA Insertion

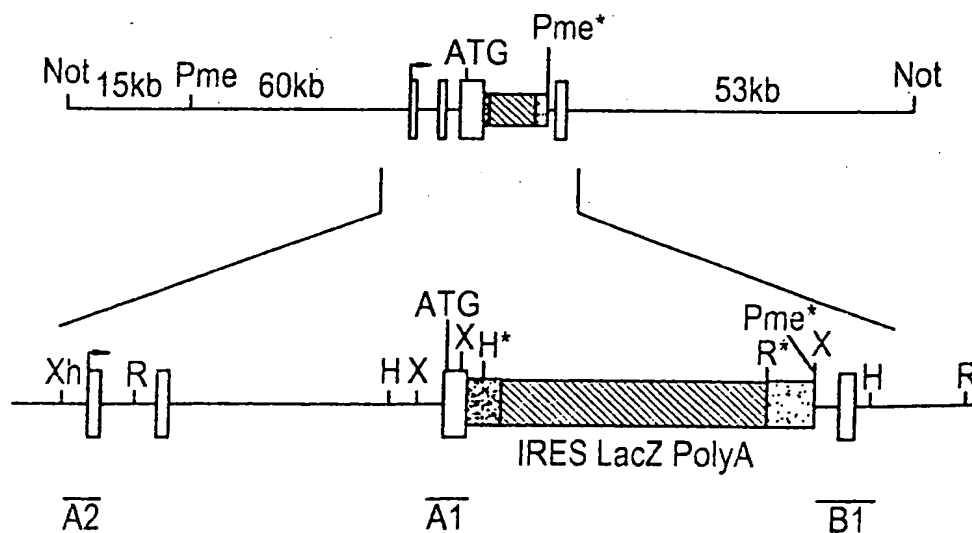


FIG.3A

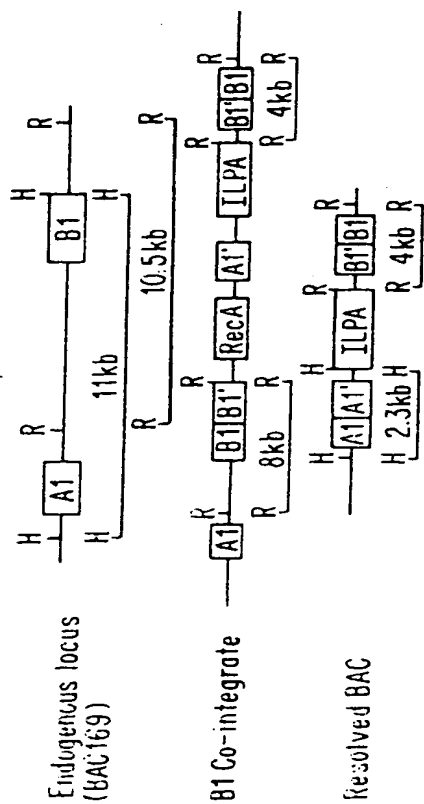


FIG.3C

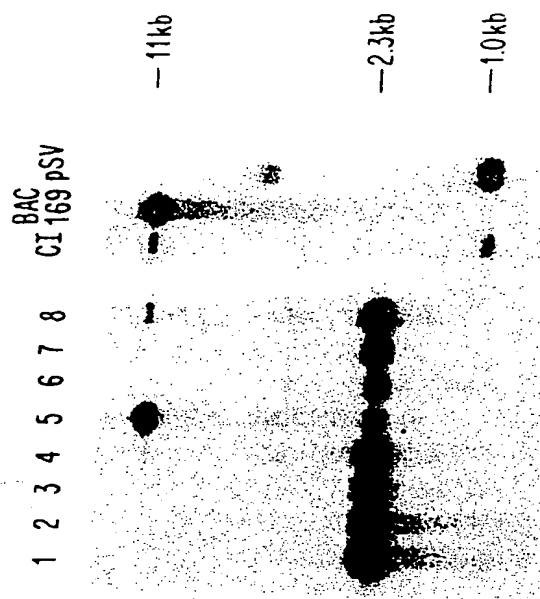


FIG.3B

BAC  
1 2 3 4 169 pSV

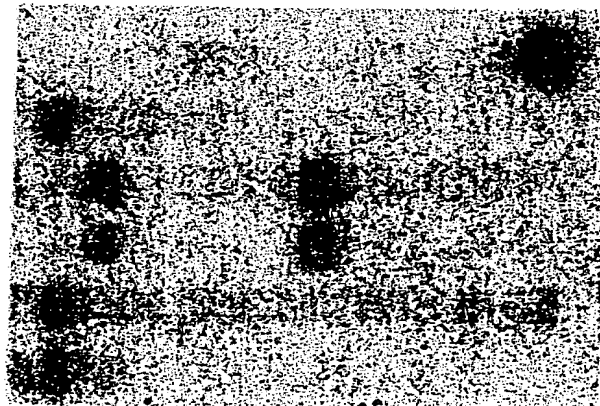


FIG.3D

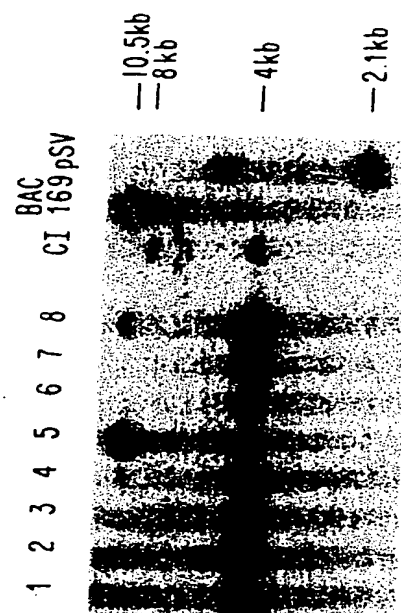
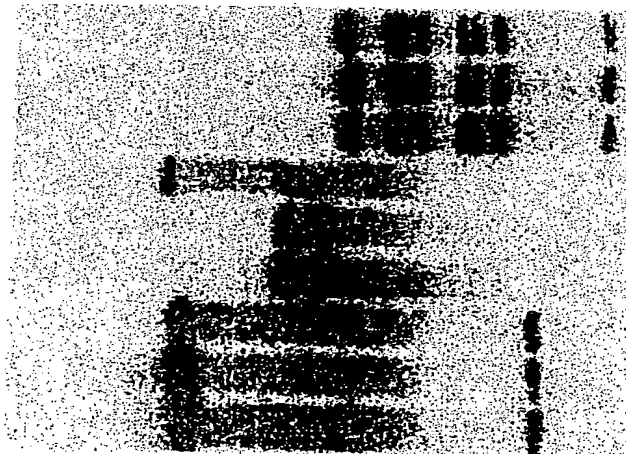


FIG.4A

BAC 169 Probe

Not			Pme			Xho		
L1	L2	169	L1	L2	169	L1	L2	169



131kb —  
112kb —  
82kb —  
64kb —  
49kb —  
34kb —  
15kb —  
7kb —

FIG.4B

PGK PA Probe

Not			Pme			Xho		
L1	L2	169	L1	L2	169	L1	L2	169

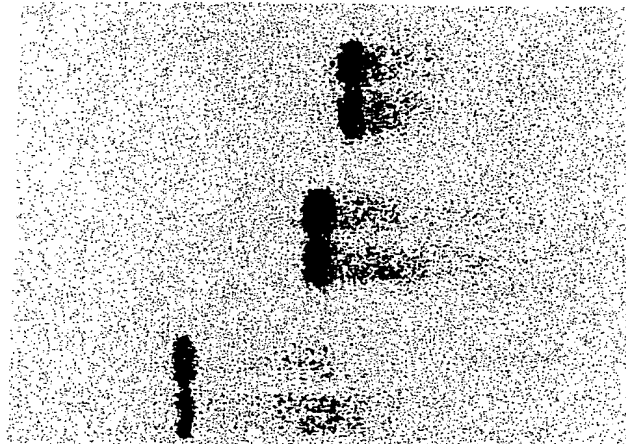


FIG.4C

A2 Probe

Not			Pme			Xho		
L1	L2	169	L1	L2	169	L1	L2	169

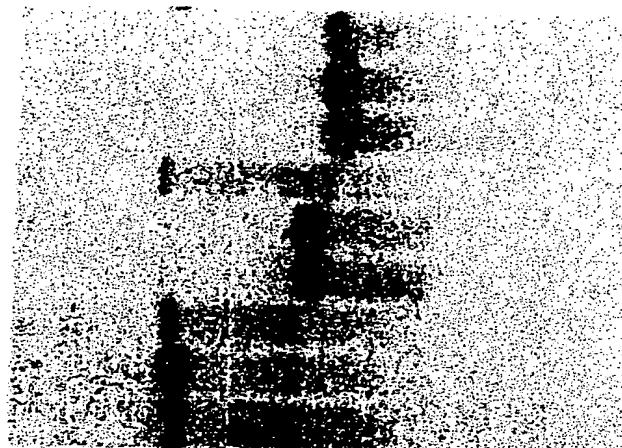


FIG. 5E



FIG. 5D

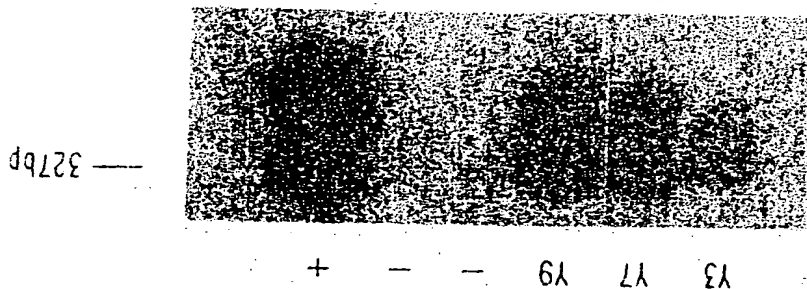


FIG. 5C

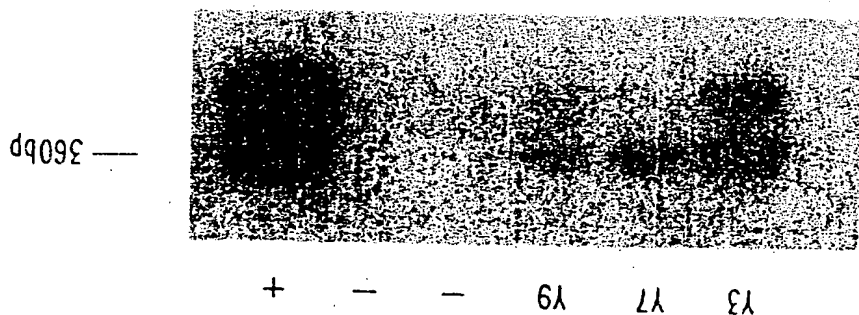


FIG. 5B

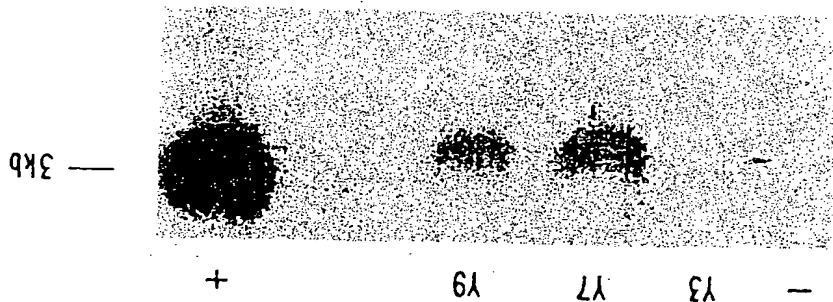


FIG. 5A

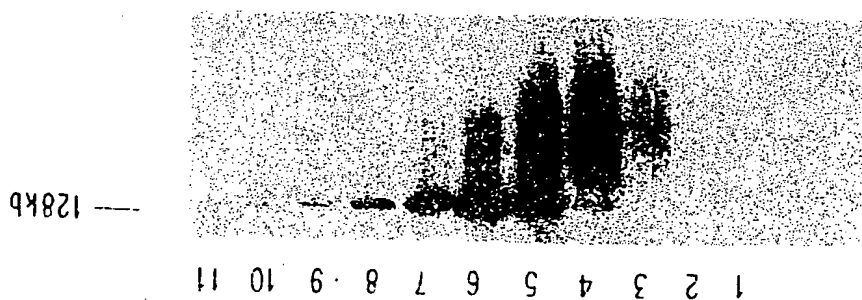


FIG. 6A

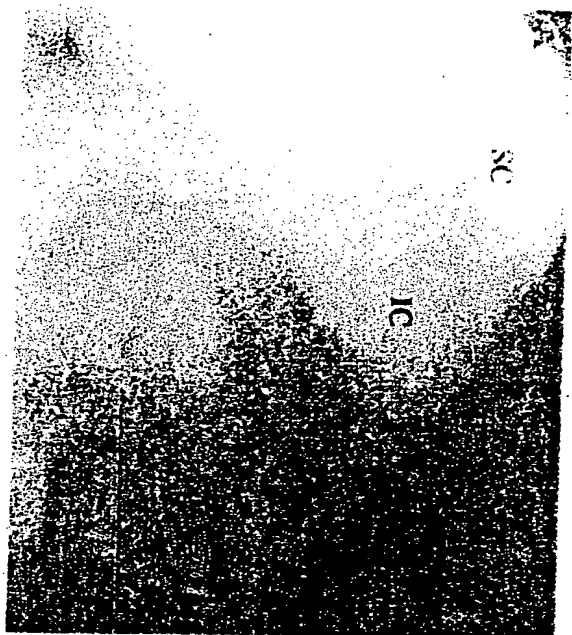


FIG. 6B

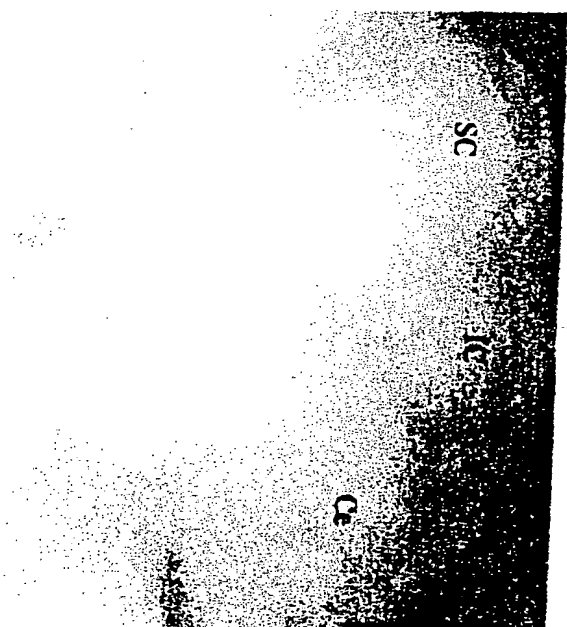


FIG. 6C



FIG. 6D



FIG. 7A

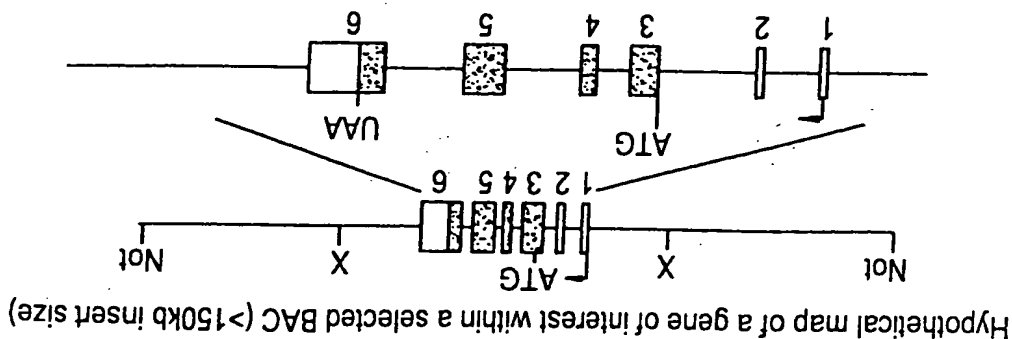
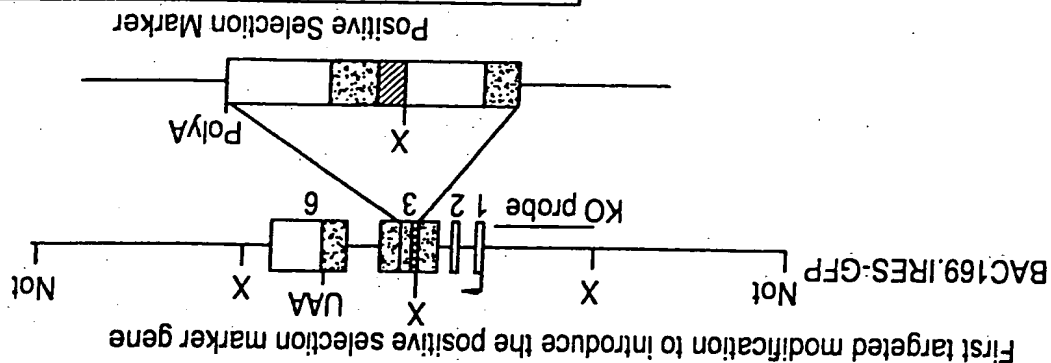
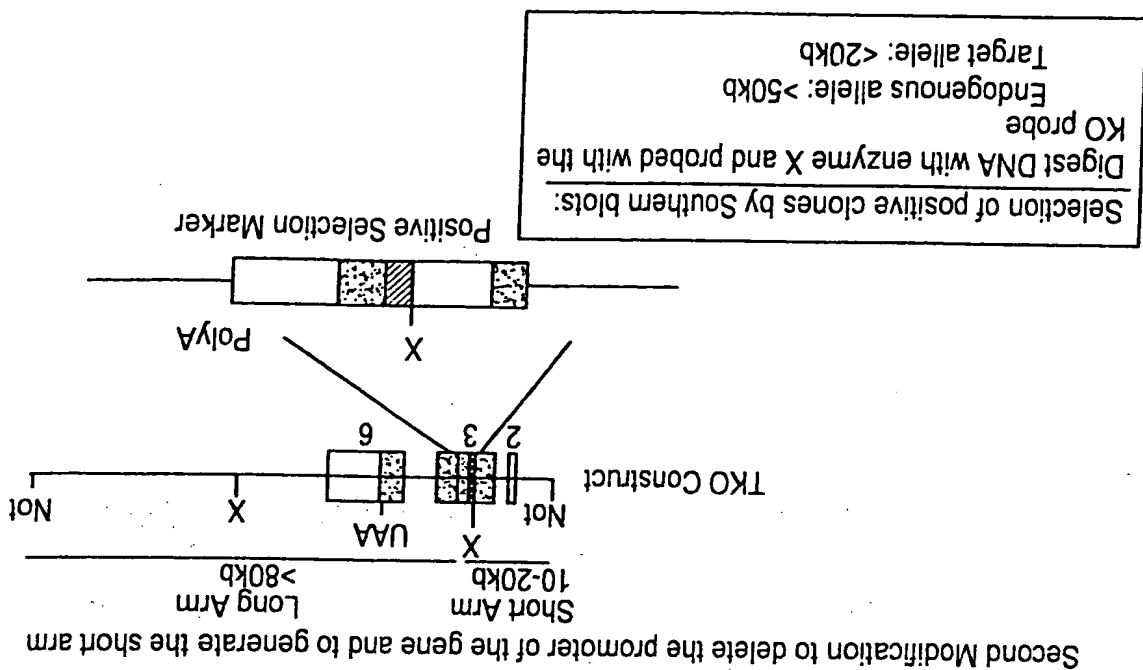


FIG. 7B



ES Cells Targeting: Marker gene=PGK-Neo-PA  
Transgenic knock-out: Marker gene=IRES-EGFP-1 or IRES-LacZ

FIG. 7C



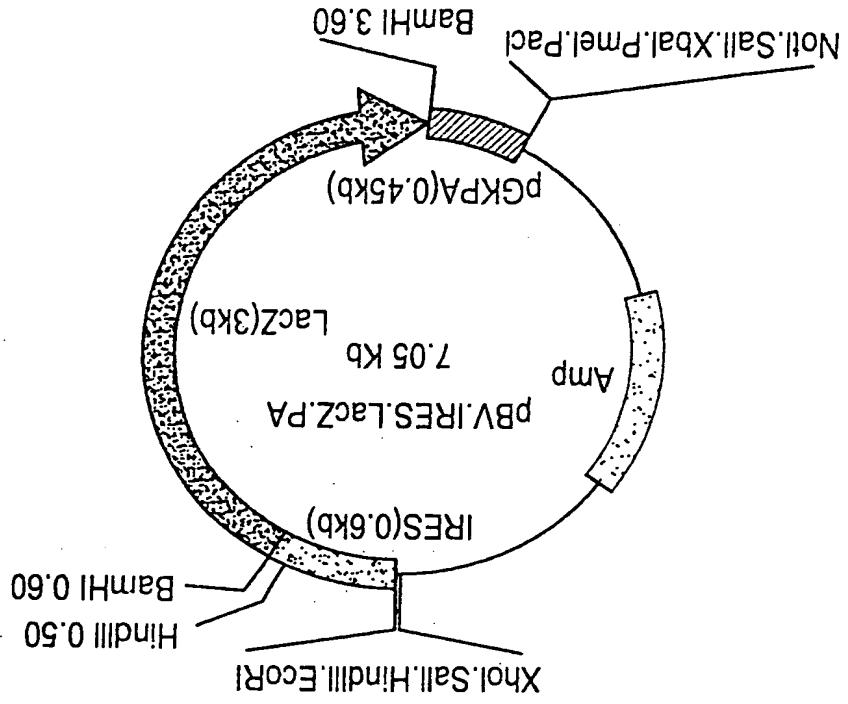


FIG. 9

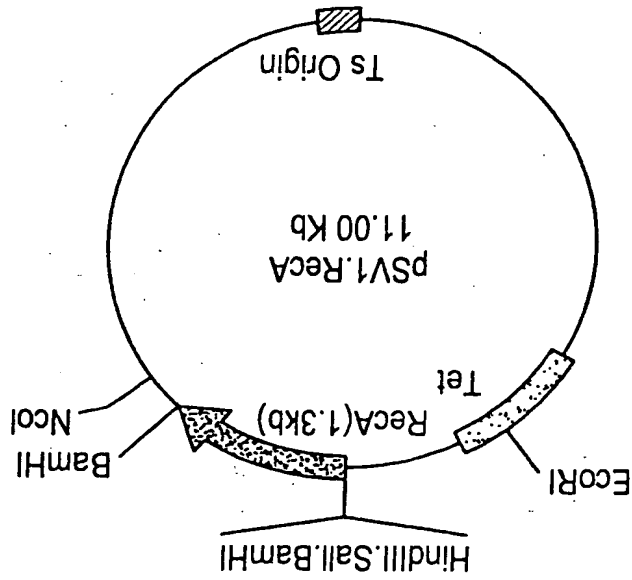


FIG. 8



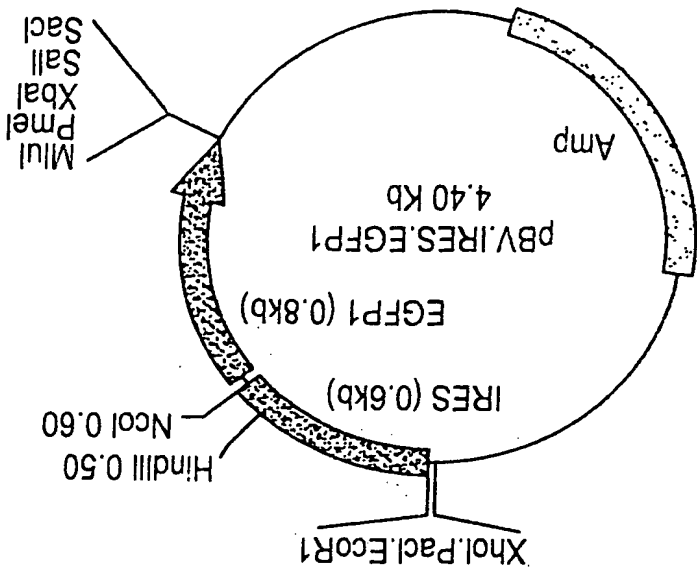


FIG. 11

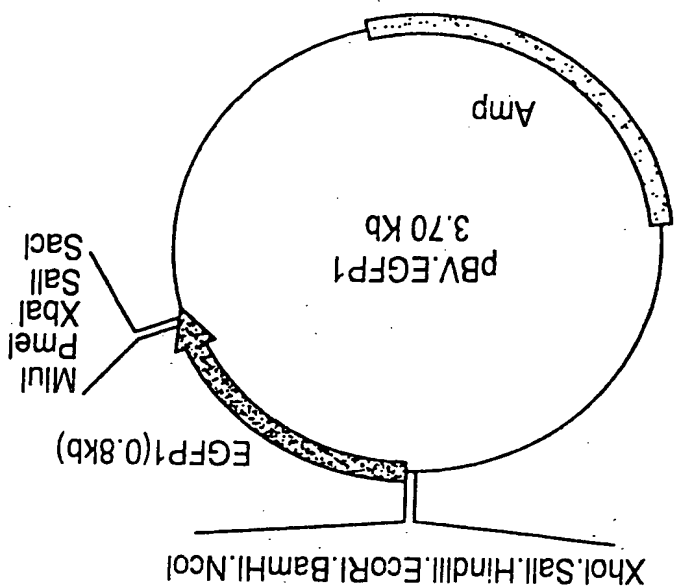


FIG. 10

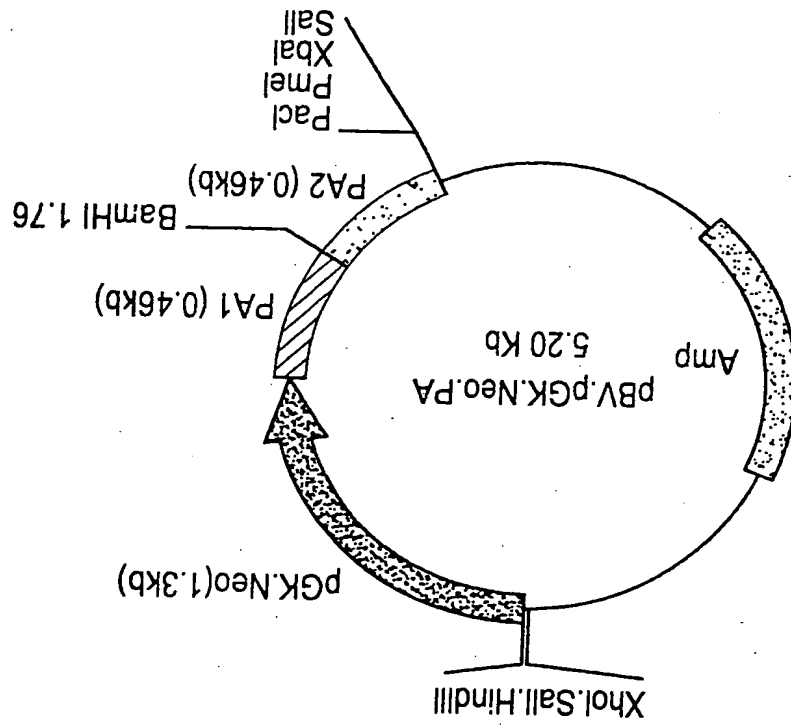
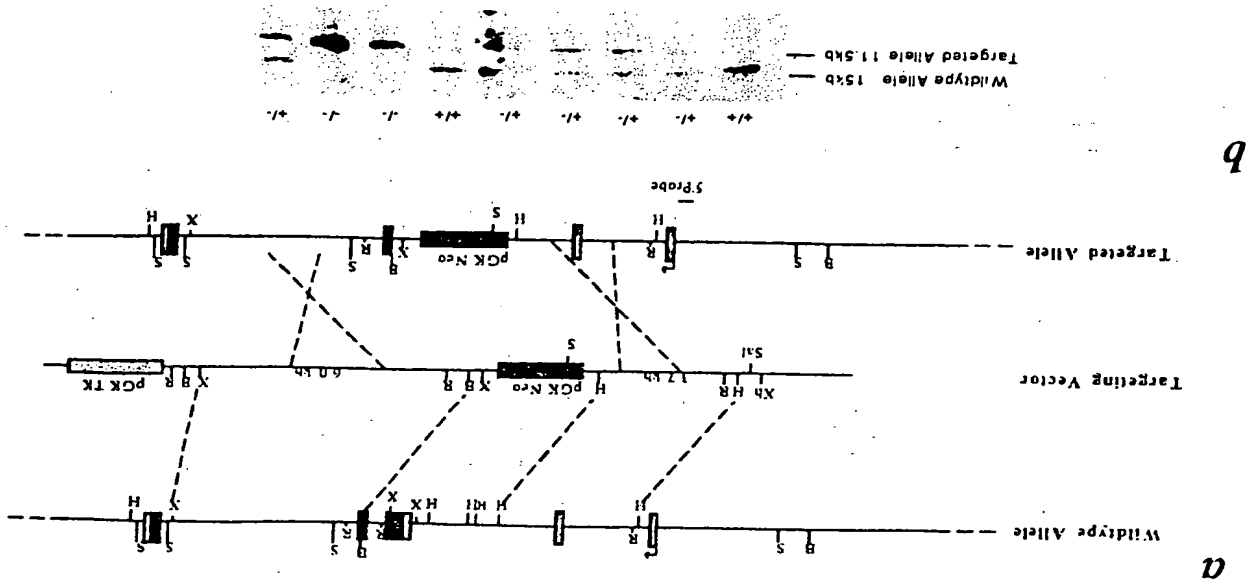


FIG. 12



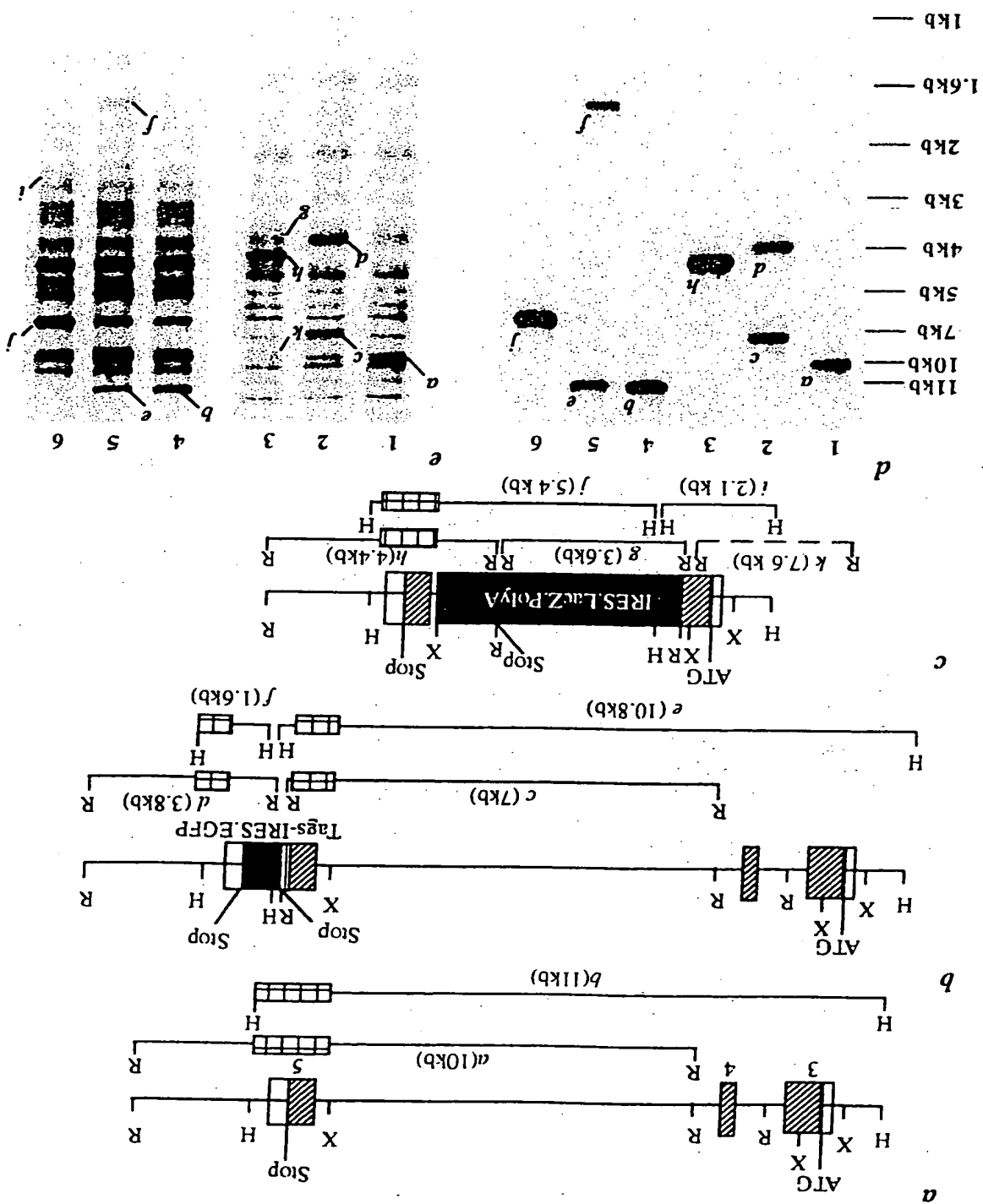


Figure 14

600-1-192N2 (Sheet 13 of 23)

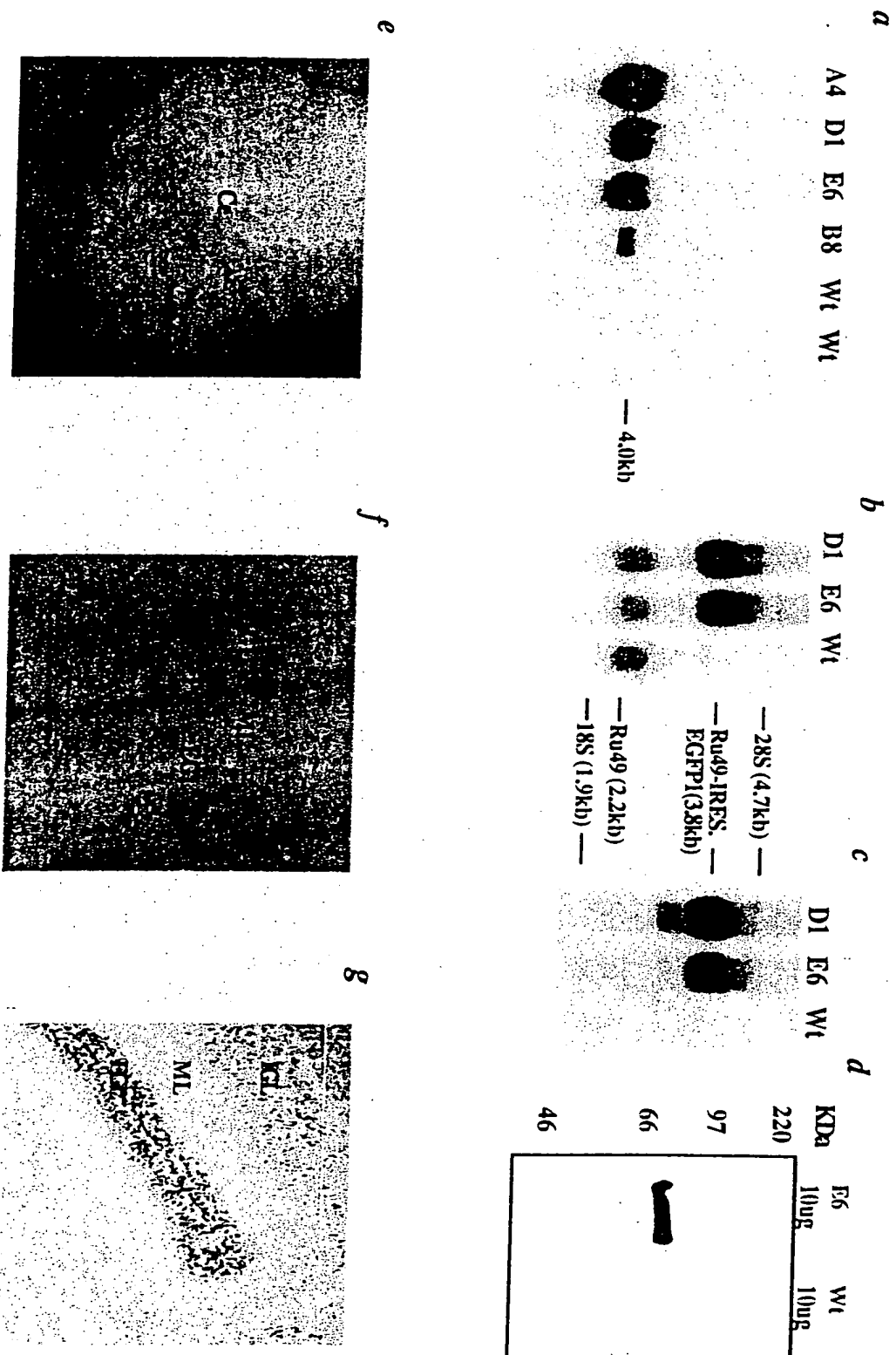


Figure 15

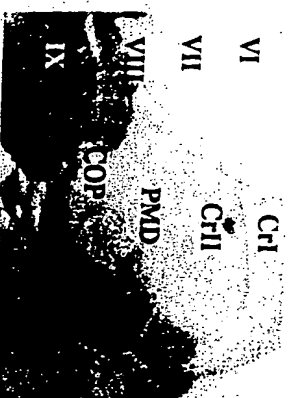
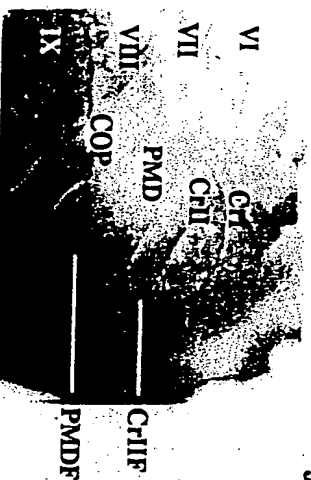
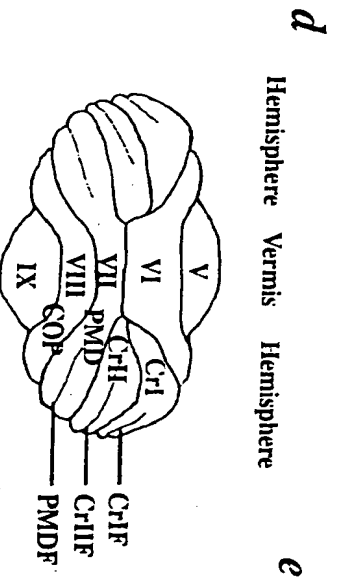
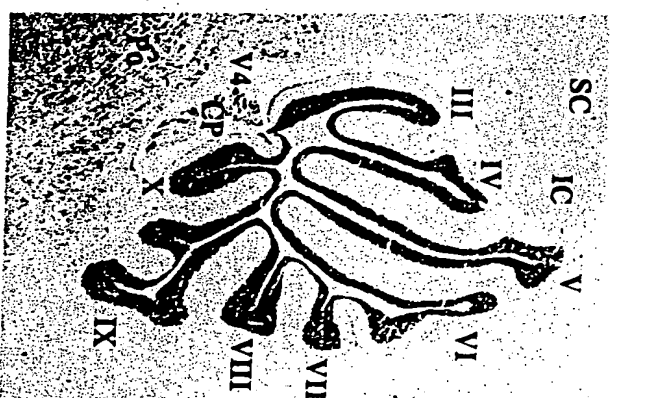
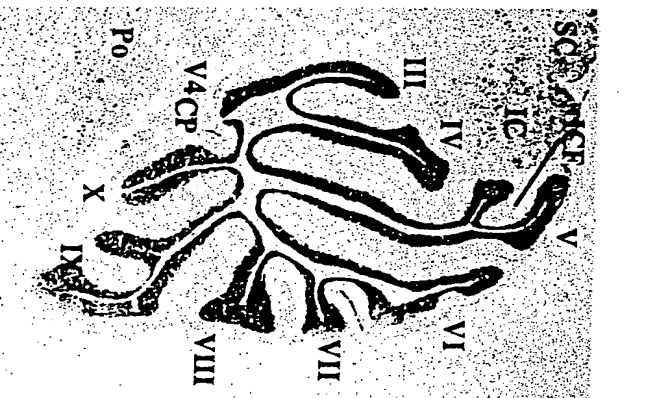
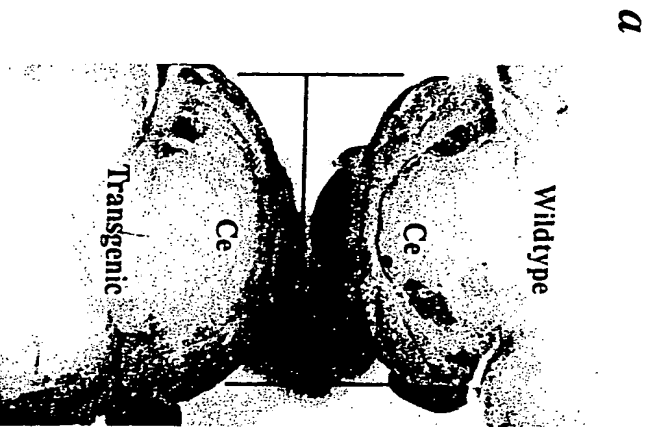


Figure 16

005740 4957950

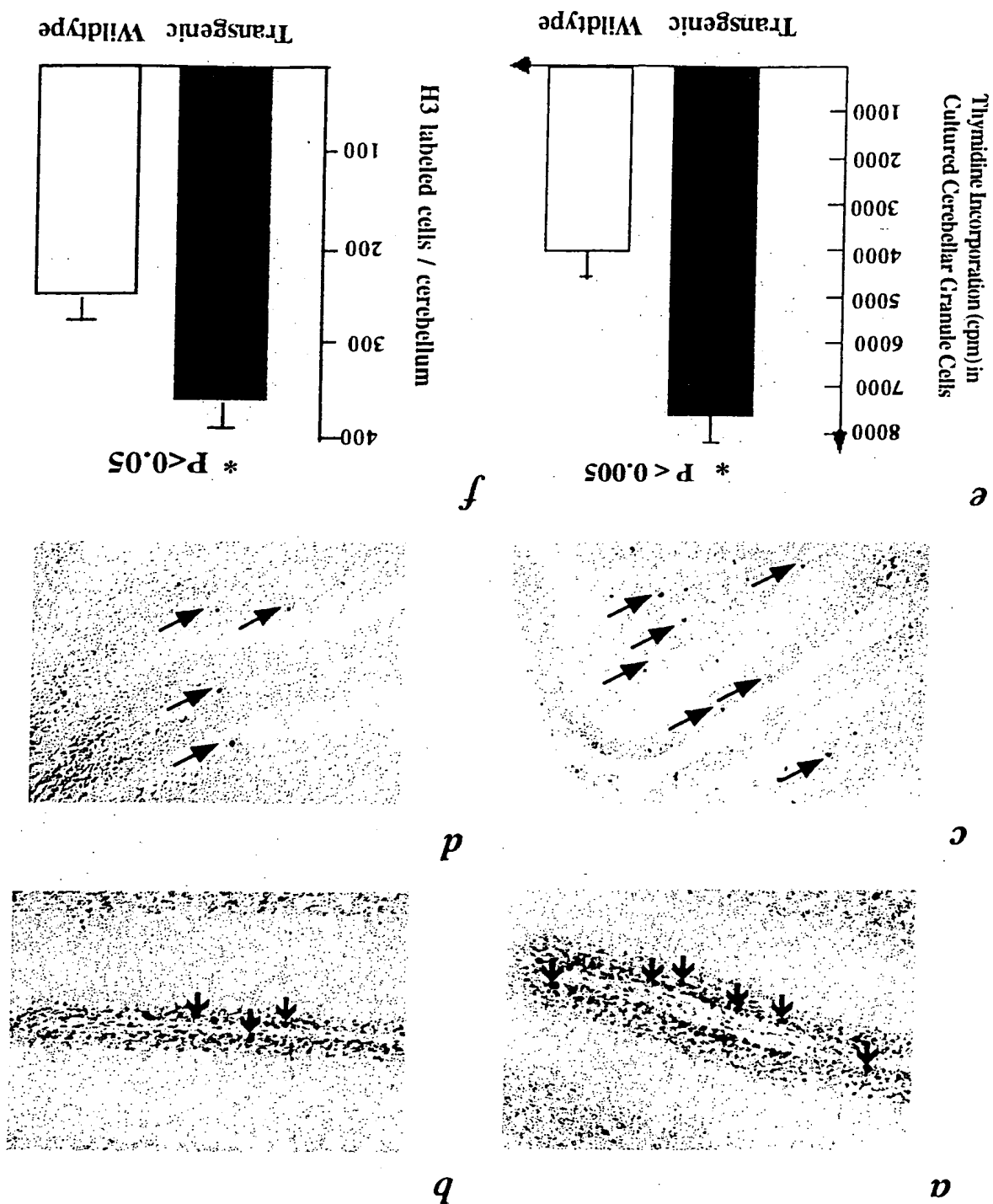
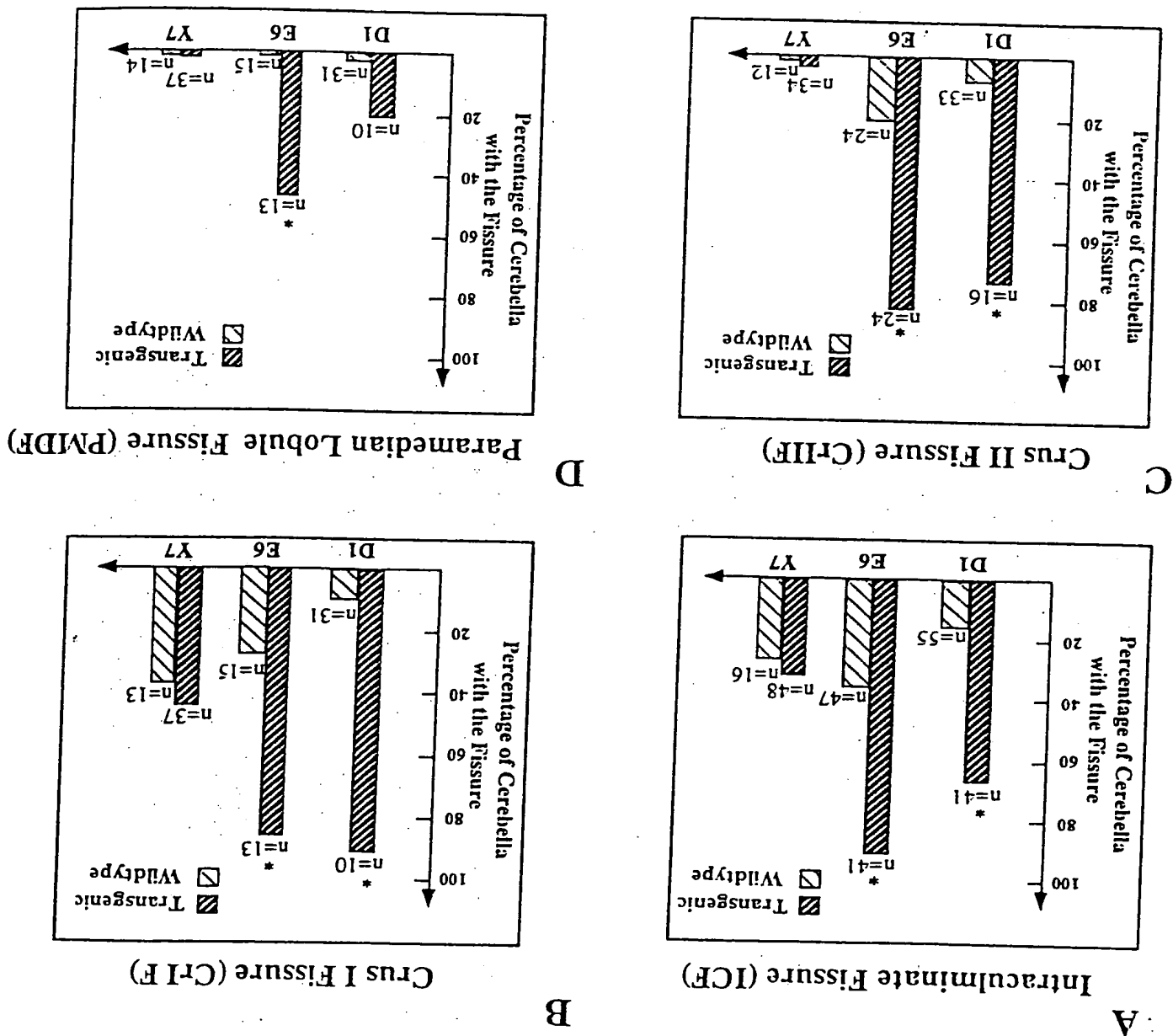


Figure 17

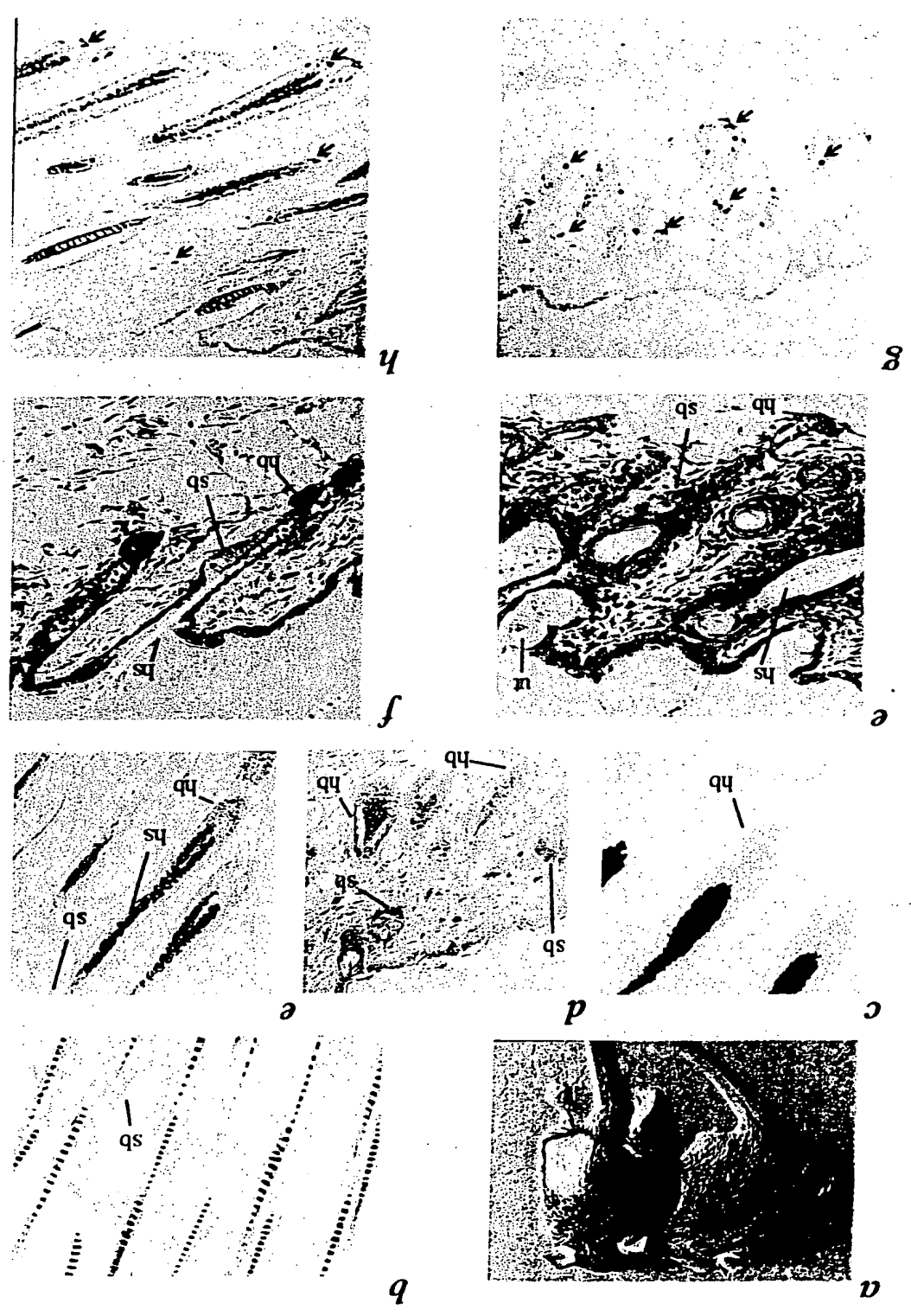
Figure 18





006120-49E6T960

Figure 19



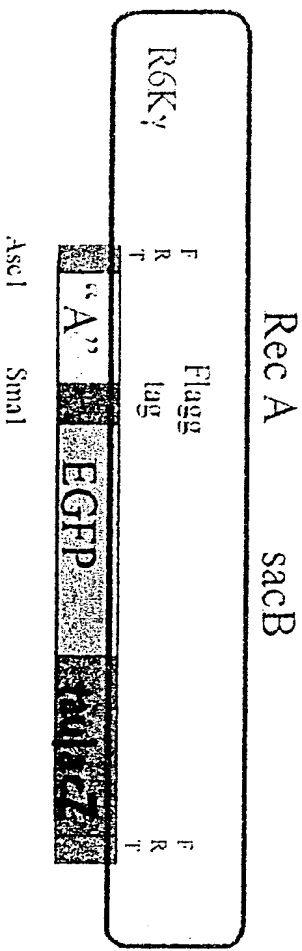


Figure 20

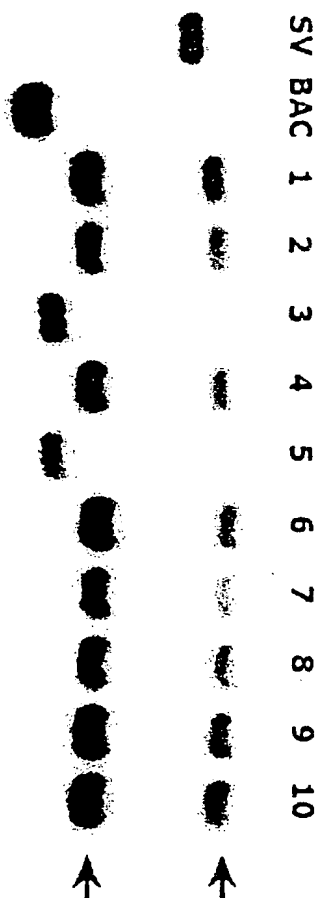


Figure 21

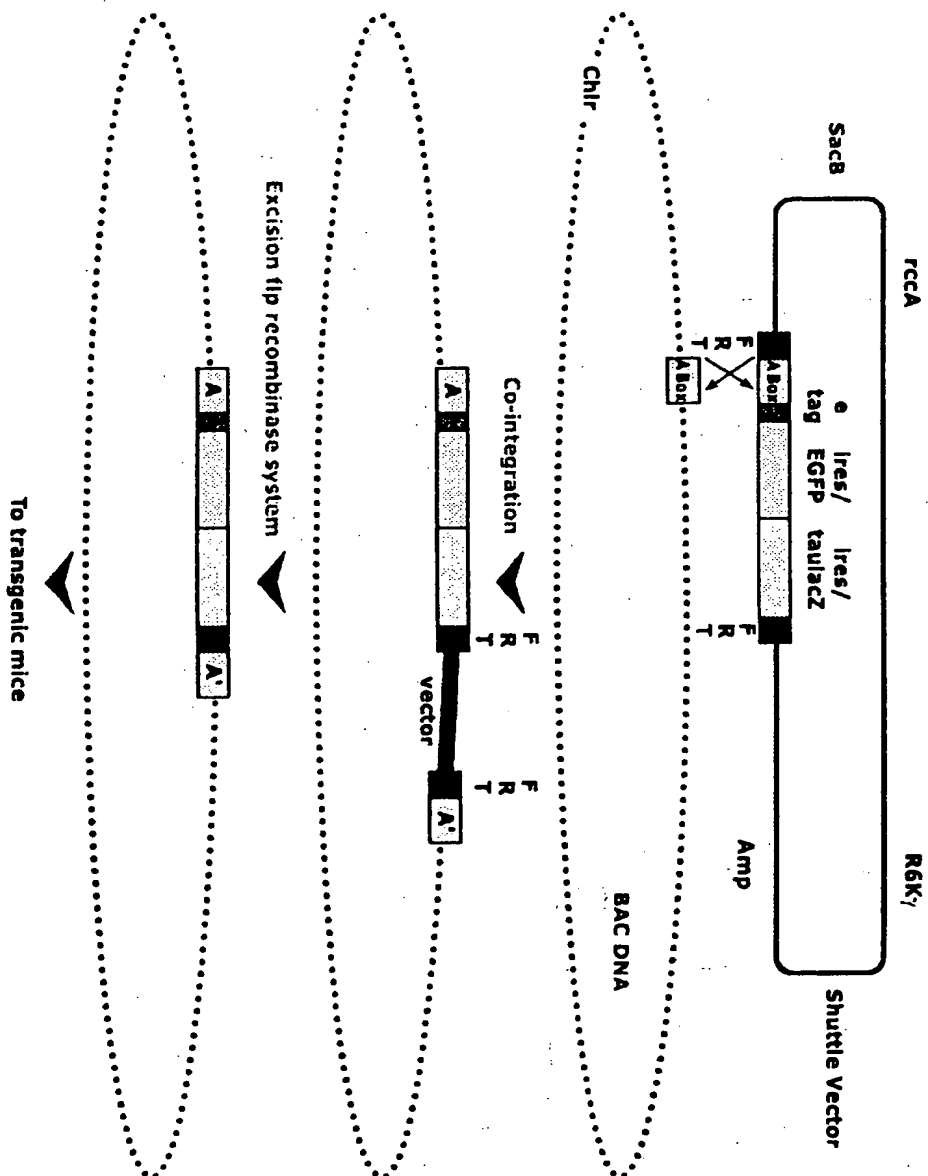


Figure 22

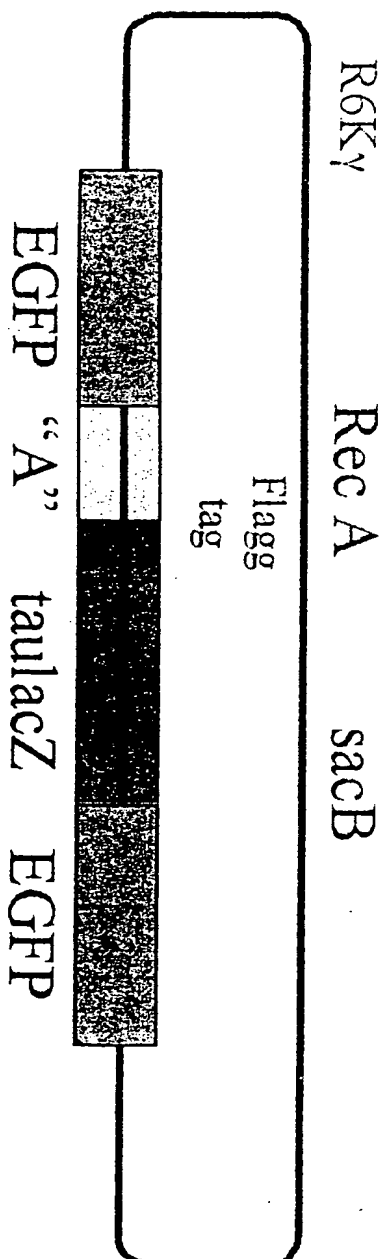


Figure 23

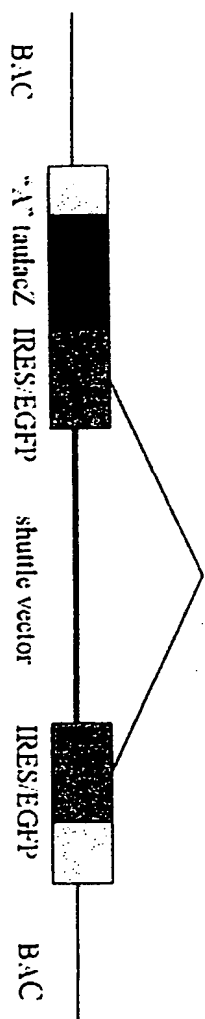


Figure 24

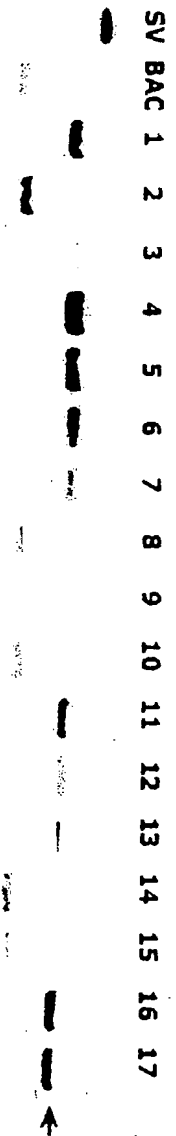


Figure 25